Amendment Dated: May 26, 2006

Reply to Office Action Mailed: May 2,6 2006

Attorney Docket No.: 038819.49818US

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims

in the application:

Listing of Claims:

Claims 1-64 (canceled).

Claim 65 (currently amended): Apparatus for reducing noise in an

area proximate an ear of an observer, comprising:

a transducer arranged to transduce noise sound in said area into a

signal;

a measuring device arranged to measure the signal from the

transducer; and

a sound cancellation device configured to receive information from

the measuring device, generate a cancellation sound of approximately an equal

intensity and opposite polarity to said noise sound, and transmit said

cancellation sound to said area thereby reducing the amount of noise sound

audible in said area by said observer; wherein,

the transducer is on the body of the observer;

the measuring device is remote from the transducer;

Page 2 of 12

Amendment Dated: May 26, 2006 Reply to Office Action Mailed: May 2,6 2006

Attorney Docket No.: 038819.49818US

the transducer wirelessly transmits the signal, representing sound in the vicinity of the ear canal, to the measuring device;

the wireless transmission of the signal takes the form of light reflected from the transducer; [[and]]

said measurement measuring device is an optical device;

the apparatus further comprises a video tracking device configured to search for, acquire and track a location of said transducer; and

said tracking device is further configured to communicate said location to said measuring device.

Claim 66 (previously presented): The apparatus as claimed in Claim 65, wherein said transducer includes pressure sensitive paint.

Claim 67 (previously presented): The apparatus according to Claim 66, wherein the transducer comprises a pressure sensitive paint applied to the skin of the observer.

Claim 68 (previously presented): The apparatus as claimed in Claim 65, wherein said transducer comprises human skin.

Claim 69 (previously presented): The apparatus according to Claim 68, wherein said skin comprises a part of the ear of the observer.

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Attorney Docket No.: 038819.49818US

Claim 70 (previously presented): The apparatus as claimed in Claim 69, wherein said skin is a part of one of a human pinna, a human concha, and a human cavum.

Claims 71-72 (canceled).

Claim 73 (previously presented): An item of jewelry, for wearing on or proximate the ear, comprising a transducer according to Claim 65.

Claim 74 (previously presented): The item of jewelry, according to Claim 73, wherein the item of jewelry comprises an earring.

Claim 75 (previously presented): The apparatus as claimed in Claim 65, wherein said optical device is an interferometer.

Claim 76 (previously presented): The apparatus as claimed in Claim 75, wherein said interferometer comprises a laser as a light source.

Claim 77 (previously presented): The apparatus as claimed in Claim 65, further comprising a filter disposed between said measuring device and said cancellation device, and arranged to pass a range of frequencies, thereby enabling said apparatus to cancel noise sound based on a frequency of said noise.

Claim 78 (canceled).

Claim 79 (previously presented): The apparatus as claimed in Claim 78, wherein said tracking device is disposed in a headrest.

Amendment Dated: May 26, 2006

Reply to Office Action Mailed: May 2,6 2006 Attorney Docket No.: 038819.49818US

Claim 80 (canceled).

Claim 81 (currently amended): The apparatus as claimed in Claim 65, further comprising a further measuring device disposed remote from said area and arranged to measure background noise proximate to said area, said background noise being communicated to said sound cancellation device to facilitate for reducing the amount of noise audible in said area.

Claim 82 (currently amended): The apparatus as claimed in Claim 81, wherein said further measuring device is a microphone.

Claim 83 (previously presented): A method for reducing noise in an area proximate an ear of an observer, the method comprising the steps of:

transducing noise sound in said area into a signal, using a transducer on the body of the observer;

measuring said signal;

generating a sound of approximately an equal intensity and opposite polarity to said measured sound;

transmitting said generated sound to said area, reducing noise audible in said area; and

wirelessly transmitting the signal from the transducer to a remote measuring device;

Amendment Dated: May 26, 2006

Reply to Office Action Mailed: May 2,6 2006

Attorney Docket No.: 038819.49818US

wherein the wireless transmission of the signal is achieved by the reflection of light from the transducer, for measurement in an optical device;

wherein the method further comprises using a video tracking device to search for, acquire and track a location of said transducer, and communicating said location to said measuring device.

Claim 84 (previously presented): The method as claimed in Claim 83, wherein said reflection comprises reflection from pressure sensitive paint.

Claim 85 (previously presented): The method according to Claim 84, further comprising a step of applying the pressure sensitive paint to the skin of the observer, for use as the transducer.

Claim 86 (previously presented): The method as claimed in Claim 83, wherein human skin is used as the transducer.

Claim 87 (previously presented): The method according to Claim 83, wherein skin of an ear of the observer is used as the transducer.

Claim 88 (previously presented): The method as claimed in Claim 87, wherein the skin of one of a human pinna, a human concha; and a human cavum, is used as the transducer.

Claim 89 (previously presented): The method as claimed in Claim 83, wherein the light is measured in an interferometer.

Claim 90 (previously presented): The method as claimed in Claim 89,

wherein a laser is used as a light source for emitting light for reflection by the

transducer.

Claim 91 (canceled).

Claim 92 (previously presented): The method according to Claim 83,

wherein the transducer is embedded in an item of jewelry for wearing on the ear

of the observer.

Claim 93 (previously presented): The method as claimed in Claim 83,

further comprising filtering between a measuring device and said cancellation

device to pass a range of frequencies, thereby enabling said apparatus to cancel

noise sound based on a frequency of said noise.

Claim 94 (canceled).

Claim 95 (previously presented): The method as claimed in Claim 94,

wherein said tracking is performed by a video tracking device.

Claim 96 (previously presented): A method as claimed in Claim 83,

comprising the further step of measuring background sound remote to said area,

and using said measurement of background sound to facilitate the reducing the

amount of noise audible in said area.

Page 7 of 12